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Finite Free Resolutions D. G. Northcott, 1976 A genuinely self contained and elementary presentation of the basic theory of finite free resolutions **Rings, Hopf Algebras, and Brauer Groups** Stefaan Caenepeel, A Verschoren, 2020-09-29 Based on papers presented at a recent international conference on algebra and algebraic geometry held jointly in Antwerp and Brussels Belgium Presents both survey and research articles featuring new results from the intersection of algebra and geometry **Progress in Commutative Algebra 1** Christopher Francisco, Lee C. Klingler, Sean Sather-Wagstaff, Janet C. Vassilev, 2012-04-26 This is the first of two volumes of a state of the art survey article collection which originates from three commutative algebra sessions at the 2009 Fall Southeastern American Mathematical Society Meeting at Florida Atlantic University The articles reach into diverse areas of commutative algebra and build a bridge between Noetherian and non Noetherian commutative algebra These volumes present current trends in two of the most active areas of commutative algebra non noetherian rings factorization ideal theory integrality and noetherian rings the local theory graded situation and interactions with combinatorics and geometry This volume contains combinatorial and homological surveys The combinatorial papers document some of the increasing focus in commutative algebra recently on the interaction between algebra and combinatorics Specifically one can use combinatorial techniques to investigate resolutions and other algebraic structures as with the papers of Fl ystad on Boij S derburg theory of Geramita Harbourne and Migliore and of Cooper on Hilbert functions of Clark on minimal poset resolutions and of Mermin on simplicial resolutions One can also utilize algebraic invariants to understand combinatorial structures like graphs hypergraphs and simplicial complexes such as in the paper of Morey and Villarreal on edge ideals Homological techniques have become indispensable tools for the study of noetherian rings These ideas have yielded amazing levels of interaction with other fields like algebraic topology via differential graded techniques as well as the foundations of homological algebra analysis via the study of D modules and combinatorics as described in the previous paragraph The homological articles the editors have included in this volume relate mostly to how homological techniques help us better understand rings and singularities both noetherian and non noetherian such as in the papers by Roberts Yao Hummel and Leuschke **Proceedings of the International Mathematical Conference, Singapore 1981** L.H.Y. Chen, T.B. Ng, M.J. Wicks, 1982-01-01 Proceedings of the International Mathematical Conference Singapore 1981 **Dimer Models and Calabi-Yau Algebras** Nathan Broomhead, 2012-01-23 In this article the author uses techniques from algebraic geometry and homological algebra together with ideas from string theory to construct a class of 3 dimensional Calabi Yau algebras The Calabi Yau property appears throughout geometry and string theory and is increasingly being studied in algebra He further shows that the algebras constructed are examples of non commutative crepant resolutions NCCRs in the sense of Van den Bergh of Gorenstein affine toric threefolds Dimer models first studied in theoretical physics give a way of writing down a class of non commutative algebras as the path

algebra of a quiver with relations obtained from a superpotential Some examples are Calabi Yau and some are not The author considers two types of consistency conditions on dimer models and shows that a geometrically consistent dimer model is algebraically consistent He proves that the algebras obtained from algebraically consistent dimer models are 3 dimensional Calabi Yau algebras This is the key step which allows him to prove that these algebras are NCCRs of the Gorenstein affine toric threefolds associated to the dimer models

Derived Category Methods in Commutative Algebra Lars Winther Christensen,Hans-Bjørn Foxby,Henrik Holm,2024-12-04 Derived category methods entered commutative algebra in the latter half of the 1960s providing among other things a framework for a clear formulation of Grothendieck's Local Duality Theorem Since then their impact on the field has steadily grown and continues to expand This book guides readers familiar with rings and modules through the construction of the associated derived category and its triangulated functors In this context it develops theories of categorical equivalences for subcategories and homological invariants of objects The second half of the book focuses on applications to commutative Noetherian rings The book can be used as a text for graduate courses both introductory and advanced and is intended to serve as a reference for researchers in commutative algebra and related fields To accommodate readers new to homological algebra it offers a significantly higher level of detail than most existing texts on the subject

Commutative Algebra Marco Fontana,Sophie Frisch,Sarah Glaz,2014-07-15 This volume presents a multi dimensional collection of articles highlighting recent developments in commutative algebra It also includes an extensive bibliography and lists a substantial number of open problems that point to future directions of research in the represented subfields The contributions cover areas in commutative algebra that have flourished in the last few decades and are not yet well represented in book form Highlighted topics and research methods include Noetherian and non Noetherian ring theory as well as integer valued polynomials and functions Specific topics include Homological dimensions of Prüfer like rings Quasi complete rings Total graphs of rings Properties of prime ideals over various rings Bases for integer valued polynomials Boolean subrings The portable property of domains Probabilistic topics in Integral Closure operations in Zariski Riemann spaces of valuation domains Stability of domains Non Noetherian grade Homotopy in integer valued polynomials Localizations of global properties of rings Topics in integral closure Monoids and submonoids of domains The book includes twenty articles written by many of the most prominent researchers in the field Most contributions are authored by attendees of the conference in commutative algebra held at the Graz University of Technology in December 2012 There is also a small collection of invited articles authored by those who did not attend the conference Following the model of the Graz conference the volume contains a number of comprehensive survey articles along with related research articles featuring recent results that have not yet been published elsewhere

Trends in Representation Theory of Algebras and Related Topics Andrzej Skowroński,2008 This book is concerned with recent trends in the representation theory of algebras and its exciting interaction with geometry topology commutative algebra Lie algebras quantum groups homological algebra invariant theory

combinatorics model theory and theoretical physics The collection of articles written by leading researchers in the field is conceived as a sort of handbook providing easy access to the present state of knowledge and stimulating further development The topics under discussion include diagram algebras Brauer algebras cellular algebras quasi hereditary algebras Hall algebras Hecke algebras symplectic reflection algebras Cherednik algebras Kashiwara crystals Fock spaces preprojective algebras cluster algebras rank varieties varieties of algebras and modules moduli of representations of quivers semi invariants of quivers Cohen Macaulay modules singularities coherent sheaves derived categories spectral representation theory Coxeter polynomials Auslander Reiten theory Calabi Yau triangulated categories Poincare duality spaces selfinjective algebras periodic algebras stable module categories Hochschild cohomologies deformations of algebras Galois coverings of algebras tilting theory algebras of small homological dimensions representation types of algebras and model theory This book consists of fifteen self contained expository survey articles and is addressed to researchers and graduate students in algebra as well as a broader mathematical community They contain a large number of open problems and give new perspectives for research in the field

Commutative Algebra David Eisenbud, 2013-12-01 Commutative Algebra is best understood with knowledge of the geometric ideas that have played a great role in its formation in short with a view towards algebraic geometry The author presents a comprehensive view of commutative algebra from basics such as localization and primary decomposition through dimension theory differentials homological methods free resolutions and duality emphasizing the origins of the ideas and their connections with other parts of mathematics Many exercises illustrate and sharpen the theory and extended exercises give the reader an active part in complementing the material presented in the text One novel feature is a chapter devoted to a quick but thorough treatment of Grobner basis theory and the constructive methods in commutative algebra and algebraic geometry that flow from it Applications of the theory and even suggestions for computer algebra projects are included This book will appeal to readers from beginners to advanced students of commutative algebra or algebraic geometry To help beginners the essential ideals from algebraic geometry are treated from scratch Appendices on homological algebra multilinear algebra and several other useful topics help to make the book relatively self contained Novel results and presentations are scattered throughout the text

Publications mathématiques de Besançon N° 1/2010 Patrick Hild, 2010-03

Commutative Algebra: Constructive Methods Henri Lombardi, Claude Quitté, 2015-07-22 Translated from the popular French edition this book offers a detailed introduction to various basic concepts methods principles and results of commutative algebra It takes a constructive viewpoint in commutative algebra and studies algorithmic approaches alongside several abstract classical theories Indeed it revisits these traditional topics with a new and simplifying manner making the subject both accessible and innovative The algorithmic aspects of such naturally abstract topics as Galois theory Dedekind rings Prüfer rings finitely generated projective modules dimension theory of commutative rings and others in the current treatise are all analysed in the spirit of the great developers of constructive algebra in the nineteenth century This

updated and revised edition contains over 350 well arranged exercises together with their helpful hints for solution A basic knowledge of linear algebra group theory elementary number theory as well as the fundamentals of ring and module theory is required Commutative Algebra Constructive Methods will be useful for graduate students and also researchers instructors and theoretical computer scientists Introduction to Cyclotomic Fields Lawrence C. Washington, 2012-12-06 Introduction to Cyclotomic Fields is a carefully written exposition of a central area of number theory that can be used as a second course in algebraic number theory Starting at an elementary level the volume covers p adic L functions class numbers cyclotomic units Fermat's Last Theorem and Iwasawa's theory of \mathbb{Z}_p extensions leading the reader to an understanding of modern research literature Many exercises are included The second edition includes a new chapter on the work of Thaine Kolyvagin and Rubin including a proof of the Main Conjecture There is also a chapter giving other recent developments including primality testing via Jacobi sums and Sinnott's proof of the vanishing of Iwasawa's f invariant **Cohomology of Vector**

Bundles and Syzygies Jerzy Weyman, 2003-06-09 The central theme of this book is an exposition of the geometric technique of calculating syzygies It is written from a point of view of commutative algebra and without assuming any knowledge of representation theory the calculation of syzygies of determinantal varieties is explained The starting point is a definition of Schur functors and these are discussed from both an algebraic and geometric point of view Then a chapter on various versions of Bott's Theorem leads on to a careful explanation of the technique itself based on a description of the direct image of a Koszul complex Applications to determinantal varieties follow plus there are also chapters on applications of the technique to rank varieties for symmetric and skew symmetric tensors of arbitrary degree closures of conjugacy classes of nilpotent matrices discriminants and resultants Numerous exercises are included to give the reader insight into how to apply this important method *The Geometry of Syzygies* David Eisenbud, 2006-10-28 First textbook level account of basic

examples and techniques in this area Suitable for self study by a reader who knows a little commutative algebra and algebraic geometry already David Eisenbud is a well known mathematician and current president of the American Mathematical Society as well as a successful Springer author **Commutative Algebra: Syzygies, Multiplicities, and Birational Algebra** William J. Heinzer, Judith D. Sally, 1994 This volume contains refereed papers on themes explored at the AMS IMS SIAM Summer Research Conference Commutative Algebra Syzygies Multiplicities and Birational Algebra held at Mount Holyoke College in 1992 The conference featured a series of one hour invited lectures on recent advances in commutative algebra and interactions with such areas as algebraic geometry representation theory and combinatorics The major themes of the conference were tight closure Hilbert functions birational algebra free resolutions and the homological conjectures Rees algebras and local cohomology With contributions by several leading experts in the field this volume provides an excellent survey of current research in commutative algebra Publicationes mathematicae Kossuth Lajos Tudományegyetem. Matematikai Intézet, 1978 Commutative Ring Theory Hideyuki Matsumura, 1989-05-25 This book

explores commutative ring theory an important a foundation for algebraic geometry and complex analytical geometry

Arithmetic and Geometry over Local Fields Bruno Anglès,Tuan Ngo Dac,2021-03-03 This volume introduces some recent developments in Arithmetic Geometry over local fields Its seven chapters are centered around two common themes the study of Drinfeld modules and non Archimedean analytic geometry The notes grew out of lectures held during the research program Arithmetic and geometry of local and global fields which took place at the Vietnam Institute of Advanced Study in Mathematics VIASM from June to August 2018 The authors leading experts in the field have put great effort into making the text as self contained as possible introducing the basic tools of the subject The numerous concrete examples and suggested research problems will enable graduate students and young researchers to quickly reach the frontiers of this fascinating branch of mathematics

Determinantal Rings Winfried Bruns,Udo Vetter,2006-11-14 Determinantal rings and varieties have been a central topic of commutative algebra and algebraic geometry Their study has attracted many prominent researchers and has motivated the creation of theories which may now be considered part of general commutative ring theory The book gives a first coherent treatment of the structure of determinantal rings The main approach is via the theory of algebras with straightening law This approach suggest and is simplified by the simultaneous treatment of the Schubert subvarieties of Grassmannian Other methods have not been neglected however Principal radical systems are discussed in detail and one section is devoted to each of invariant and representation theory While the book is primarily a research monograph it serves also as a reference source and the reader requires only the basics of commutative algebra together with some supplementary material found in the appendix The text may be useful for seminars following a course in commutative ring theory since a vast number of notions results and techniques can be illustrated significantly by applying them to determinantal rings

Deformation and Unobstructedness of Determinantal Schemes Jan O. Kleppe,Rosa M. Miró-Roig,2023-06-22 View the abstract

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